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AN EXPERIMENT IN CULTURAL INTERPRETATION AND MAP REVISION FROM ERTS-A  
DATA

NTIS HC \$3.00

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1 January 1973

Type II Progress Report for Period 1 July 1972 - 31 December 1972

Prepared for:

Goddard Space Flight Center  
Greenbelt, Maryland 20771

(E73-10052) AN EXPERIMENT IN CULTURAL  
INTERPRETATION AND MAP REVISION FROM  
ERTS-A DATA Progress Report, 1 Jul. -  
31 Dec. 1972 (Geological Survey, McLean,  
Va.) 4 p HC \$3.00 CSCL 08B G3/13 Unclas  
00052  
N73-16314

Publication authorized by the Director, U.S. Geological Survey

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# TECHNICAL REPORT STANDARD TITLE PAGE

1. Report No. Leave Blank	2. Government Accession No. Leave Blank	3. Recipient's Catalog No. Leave Blank	
4. Title and Subtitle An Experiment in Cultural Interpretation and Map Revision from ERTS-A Data		5. Report Date 1 January 1973	
		6. Performing Organization Code Leave Blank	
7. Author(s) William J. Kosco (IN 419)		8. Performing Organization Report No. Leave Blank	
9. Performing Organization Name and Address  U. S. Geological Survey Washington, D. C. 20242		10. Work Unit No. Leave Blank	
		11. Contract or Grant No. S-70243 - AG	
12. Sponsoring Agency Name and Address  Mr. A. W. Fihelly Goddard Space Flight Center Greenbelt, Maryland 20771		13. Type of Report and Period Covered Type II Progress Rpt 1 Jul 72 - 31 Dec 72	
		14. Sponsoring Agency Code Leave Blank	
15. Supplementary Notes  Leave Blank			
16. Abstract  Since RBV images are not available, the investigation is concentrating on MSS images. Successful applications of MSS imagery for revision of water bodies at 1:500,000 scale has been demonstrated.  Analysis of the image detectability of the MSS bands has shown that band 7 is able to penetrate haze and smog conditions over cultural areas. Band 5 is suited to manmade features, such as highways and airports. Bands 6 and 7 are suited for revision of water features.			
17. Key Words (Selected by Author(s))		18. Distribution Statement  Leave Blank	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Not Applicable	21. No. of Pages 4	22. Price* Leave Blank

\*For sale by the Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia 22151.

Figure 2. Technical Report Standard Title Page

Type II Progress Report  
ERTS-A

- a. Title: An Experiment in Cultural Interpretation and Map Revision  
from ERTS-A Data

ERTS-1 Proposal No. SR 237

- b. GSFC ID No. of P.I. IN 419

- c. Problems:

Lack of complete coverage of any test area has hindered progress  
and conclusive results.

- d. Accomplishments:

This investigation has been receiving imagery from all four MSS  
bands since mid November 1972. Prior to this change, only bands  
6 and 7 of each scene had been requested. The following are  
observations that can be made relating to image detectability  
using all four MSS bands.

1. Revision of water bodies, including the addition of  
new reservoirs made to the Virginia State Base Map  
at a scale of 1:500,000.
2. The celebrated haze and smog conditions of the eastern  
industrial corridor and the Los Angeles, Calif. area  
were readily penetrated as seen by the imagery obtained  
from MSS band 7. Cultural detail as well as water  
features are clearly detectable.
3. The low sun angle of winter photography is producing  
low contrast images which are less desirable when compared

to summer imagery. The absence of foliage is of no consequence as a tradeoff.

4. Interstate highways, major sized new construction (airports, pipelines, and road nets) are best seen in band 5.

- e. Significant scientific results: N/A
- f. Published articles and reports: N/A
- g. Recommended changes in operations: N/A
- h. Changes in Standing Order Forms: N/A
- i. ERTS Image Descriptor forms: N/A
- j. Changes in Data Request Forms:

A change to the Data Request form was submitted to Goddard Space Flight Center/NDPF on October 18, 1972, requesting that the standing order for data for this experiment be changed and that in the absence of RBV imagery, all four bands of MSS imagery be substituted. When the RBV sensors are reactivated, all 3 RBV bands will be requested.

- k. DCP Status: N/A